PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY To: BINAL J. PATEL BANNER & WITCOFF, LTD.	50/69					
To: BINAL J. PATEL DOCKET	ED de PCT					
356						
STITE 2000 APR 2 1 ZU	I_/ / THE INTERNATIONAL SEARCH DEPORT					
CHICAGO, IL 60606-7407 Cleshact du	₽//4/2oo (/ OR THE DECLARATION					
art 19 du 01178,00151-IDS due 5/4 fast day IOS-7/14/200	e 6/9/2 00 4 (PCT Rule 44.1)					
fast day IDS -7/14/200	Date of Mailing (day/month/year)					
Applicant's or agent's file reference 011738.00189	FOR FURTHER ACTION See paragraphs 1 and 4 below					
International application No. PCT/US03/32941	International filing date (day/month/year) 15 October 2003 (15.10.2003)					
Applicant MEDTRONIC INC.	15 00001 2005 (15.10.2005)					
The applicant is hereby notified that the international s	search report has been established and is transmitted herewith.					
Filing of amendments and statement under Article The applicant is entitled, if he so wishes, to amend the						
When? The time limit for filing such amendment	s is normally two months from the date of transmittal of the					
international search report.						
Where? Directly to the International Bureau of WIPO, 34, chemin des Colombettes 1211 Geneva 20, Switzerland, Facsimile No.: (41-22) 740.14.35 APR 1 9 2004						
For more detailed instructions, see the notes on the accompanying sheet.						
BANNER & WITC The applicant is hereby notified that no international search report will be established and that the declaration upper CKETING DE Article 17(2)(a) to that effect is transmitted herewith.						
With regard to the protest against payment of (an) ac	dditional fee(s) under Rule 40.2, the applicant is notified that:					
the protest together with the decision thereon has	been transmitted to the International Bureau together with the he protest and the decision thereon to the designated Offices.					
	applicant will be notified as soon as a decision is made.					
4. Reminders						
Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90 bis.1 and 90 bis.3, respectively, before the completion of the technical preparations for international publication.						
Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later), otherwise the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.						
In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.						
See the Annex to Form PCT/IB/301 and, for details about Guide, Volume II, National Chapters and the WIPO Internet	the applicable time limits, Office by Office, see the PCT Applicant's site.					
Name and mailing address of the ISA/US	Appropried officer					
Mail Stop PCT, Attn: ISA/US Commissioner for Patents	John Molins					
P.O. Box 1450	Michael Astorino					
Alexandria, Virginia 22313-1450 Facsimile No. (703)305-3230	Telephone No. (703) 306-5648					
Form PCT/ISA/220 (April 2002)	(See notes on accompanying sheet)					

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY					
To: BINAL J. PATEL BANNER & WITCOFF, LTD.	PCT				
TEN S. WACKER DRIVE SUITE 3000 CHICAGO, IL 60606-7407	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION				
	(PCT Rule 44.1)				
	Date of Mailing (day/month/year) 14 APR 2004				
Applicant's or agent's file reference 011738.00189	FOR FURTHER ACTION See paragraphs 1 and 4 below				
International application No. PCT/US03/32941	International filing date (day/month/year) 15 October 2003 (15.10.2003)				
Applicant MEDTRONIC INC.					
The applicant is hereby notified that the international search report has been established and is transmitted herewith.					
Filing of amendments and statement under Article 19 The applicant is entitled, if he so wishes, to amend the					
When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report.					
Where? Directly to the International Bureau of WIPO, 34, chemin des Colombettes 1211 Geneva 20, Switzerland, Facsimile No.: (41-22) 740.14.35					
For more detailed instructions, see the notes on the accompanying sheet.					
The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.					
3. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:					
the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.					
no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.					
4. Reminders					
Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90 bis.1 and 90 bis.3, respectively, before the completion of the technical preparations for international publication.					
Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filled if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.					

In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume 11, National Chapters and the WIPO Internet site.

Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents

P.O. Box 1450

Alexandria, Virginia 22313-1450 Facsimile No. (703)305-3230 Form PCT/ISA/220 (April 2002)

Authorized office Michael Astorino

Telephone No. (703) 306-5648

(See notes on accompanying sheet)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/32941

Box III TEXT OF THE ABSTRACT (Continuation of Item 5 of the first sheet)

The technical features mentioned in the abstract do not include a reference sign between parentheses (PCT Rule 8.1(d)).

NEW ABSTRACT

Apparatus and method support the synchronization and calibration of a plurality of clocks in a medical device system that may provide treatment to a patient with a nervous system disorder. The plurality of clocks, which may be located at different components of the medical device system, comprises a first and a second clock. The second clock may be synchronized (1517) to a first clock by disabiling a run mode operation and setting the second clock to a selected time. When a reference time of the first clock approximately equals the selected time, the second clock enables the run mode operation. Additionally, a drift time that is indicative of a time difference between the first clock and the second clock is determined. If the drift time is greater than a predetermined amount, an indication to resynchronized the first and second clocks is provided.

INTERNATIONAL SEARCH REPORT

International application No.

Relevant to claim No.

1-53

PCT/US03/32941

CLASSIFICATION OF SUBJECT MATTER

DOCUMENTS CONSIDERED TO BE RELEVANT

IPC(7) : A61B 5/00

: 600/300 US CL

According to International Patent Classification (IPC) or to both national classification and IPC

FIELDS SEARCHED

Category *

A, E

Minimum documentation searched (classification system followed by classification symbols)

U.S.: 600/300-301; 128/920; 607/45

Commissioner for Patents P.O. Box 1450

Alexandria, Virginia 22313-1450 Facsimile No. (703)305-3230 Form PCT/ISA/210 (second sheet) (July 1998)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched NONE

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) West 2.1

Citation of document, with indication, where appropriate, of the relevant passages

US 6,671,556 B2 (Osorio et al.) 12 December 2003, see entire document

A, P	US 6,587,727 B2 (Osorio et al.) 01 July 2003, see	1-53			
A, P	US 6,560,486 B1 (Osorio et al.) 06 May 2003, see	1-56			
A	US 5,995,868 A (Dorfmeister et al.) 30 November	- 1			
Further	r documents are listed in the continuation of Box C.	See patent family annex.			
"A" documen	Special categories of cited documents: at defining the general state of the art which is not considered to be ular relevance	"T" later document published after the int date and not in conflict with the appli principle or theory underlying the inv	cation but cited to understand the		
B carifer application or parent published on or after the international filing date *L* document which may throw doubts on priority claim(3) or which is cited to existibilist the publication date of another citation or other special reason (as specified)		"X" document of particular relevance; the considered novel or cannot be consid when the document is taken alone			
		"Y" document of particular relevance; the considered to involve an inventive ste combined with one or more other suc	p when the document is		
"O" documen	t referring to an oral disclosure, use, exhibition or other means	being obvious to a person skilled in the	n documents, such combination ie art		
"P" documen priority d	t published prior to the international filing date but later than the date claimed	"&" document member of the same patent family			
	ctual completion of the international search	Date of mailing of the international sear	ch report		
13 March 2004 (13.03.2004) Name and maling address of the ISA/US Mail Stop PCT, Attr. ISA/US Commissioner for Patess					

Telephone No. (703) 306-5648

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 011738.00189	FOR FURTHER ACTION		cation of Transmittal of International Search orm PCT/ISA/220) as well as, where applicable, ow.				
International application No. PCT/US03/32941	International filing date (day/month/year) 15 October 2003 (15.10.2003)		(Earliest) Priority Date (day/month/year) 15 October 2002 (15.10.2002)				
Applicant MEDTRONIC INC.							
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau. This international search report consists of a total of							
It is also accompanied	d by a copy of each prior art docus	nent cited	in this report.				
Basis of the Report With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.							
the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)). b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing:							
contained in the internation	contained in the international application in written form.						
filed together with the inter	national application in computer rea	dable form					
furnished subsequently to the	is Authority in written form.						
furnished subsequently to the	nis Authority in computer readable for	orm.					
the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.							
the statement that the information been furnished.	the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.						
2. Certain claims were found	2. Certain claims were found unsearchable (See Box I).						
3. Unity of invention is lacking (See Box II).							
4. With regard to the title,							
the text is approved as submitted by the applicant.							
the text has been established	by this Authority to read as follow	s:					
5. With regard to the abstract,	•						
the text is approved as subn	nitted by the applicant						
the text has been established	d, according to Rule 38.2(b), by this		as it appears in Box III. The applicant may, ort, submit comments to this Authority.				
 The figure of the drawings to be published with the abstract is Figure No. 15 							
as suggested by the applica							
	because the applicant failed to suggest a figure.						
because this figure better cl							

NOTESTO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under Article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicator 5 Guide, a publication of WIPO.

In these Notes, "Article," "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Preliminary Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When? Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How? Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]: "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged: new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 - "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]:
- "Claims I-10 unchanged; claims II to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under Article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 1911)."

It may not contain any disparaging comments on the int mational search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international perliminary examination has already been submitted, the applicant must perferably, at the time of filing the amendments (and any statement) with the International Bureau, also file with the International Perliminary Examinating Authority a copy of such amendments (and of any statement) and, where required, a translation of such amendments for the procedure before that Authority (see Rules \$5.3(a) and 62.2, first sentence). For further information, see the Notes to the demand form (FCT/IPEA/AD)

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see the PCT Applicant's Guide, Volume II.